

$$\text{Fig. 1C}$$
$$\text{TS: } \| (x_{\text{new}}, y_{\text{new}}) - (x_{\text{refi}}, y_{\text{refi}}) \|^2 \geq \epsilon ?$$

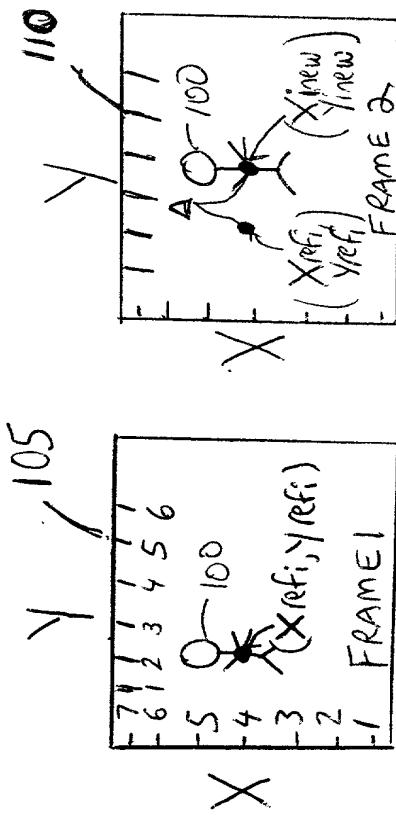
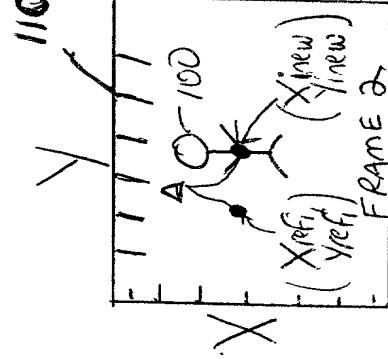


Fig. 1B



STORE new X_{refi}, Y_{refi} from Fig. 2B
as the reference coordinates

Fig. 2C

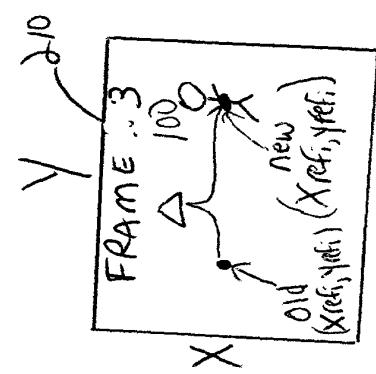


Fig. 2B

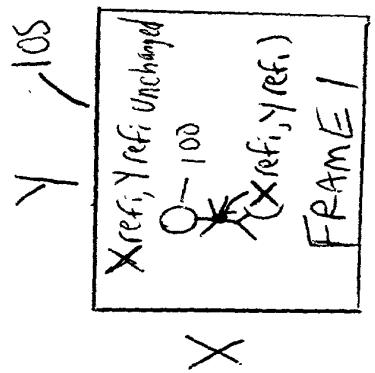


Fig. 2A

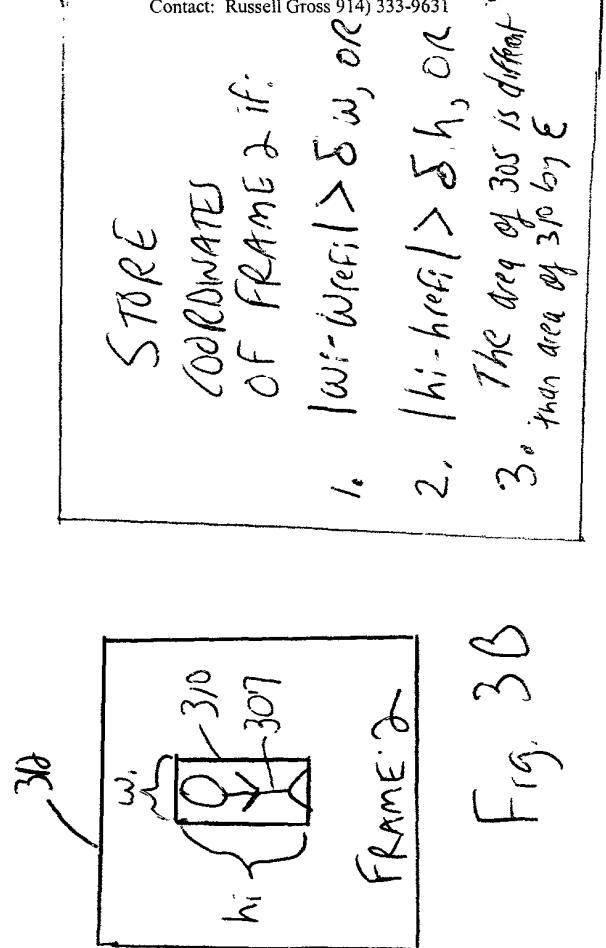


Fig. 3B

Fig. 3A

Fig. 3C

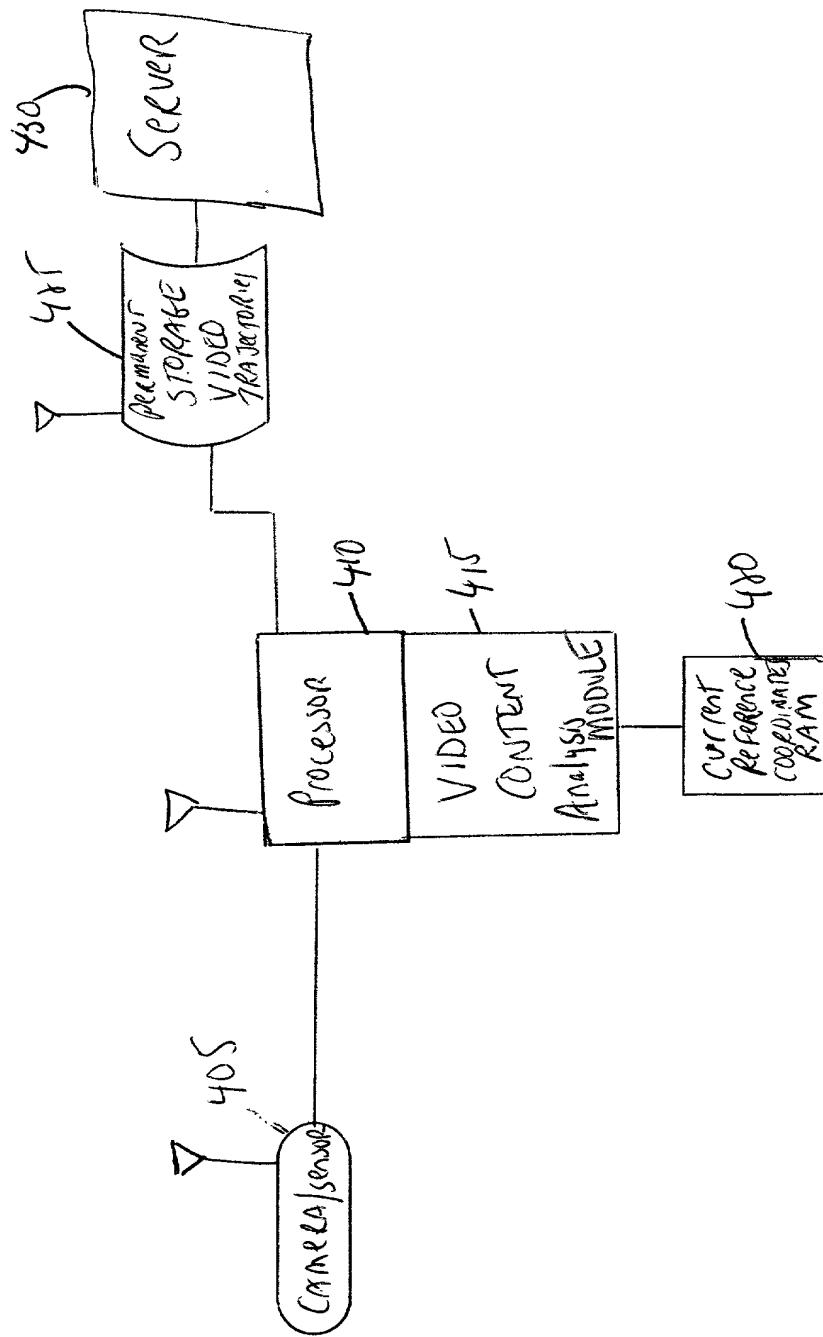


Fig. 4

FIG. 5A

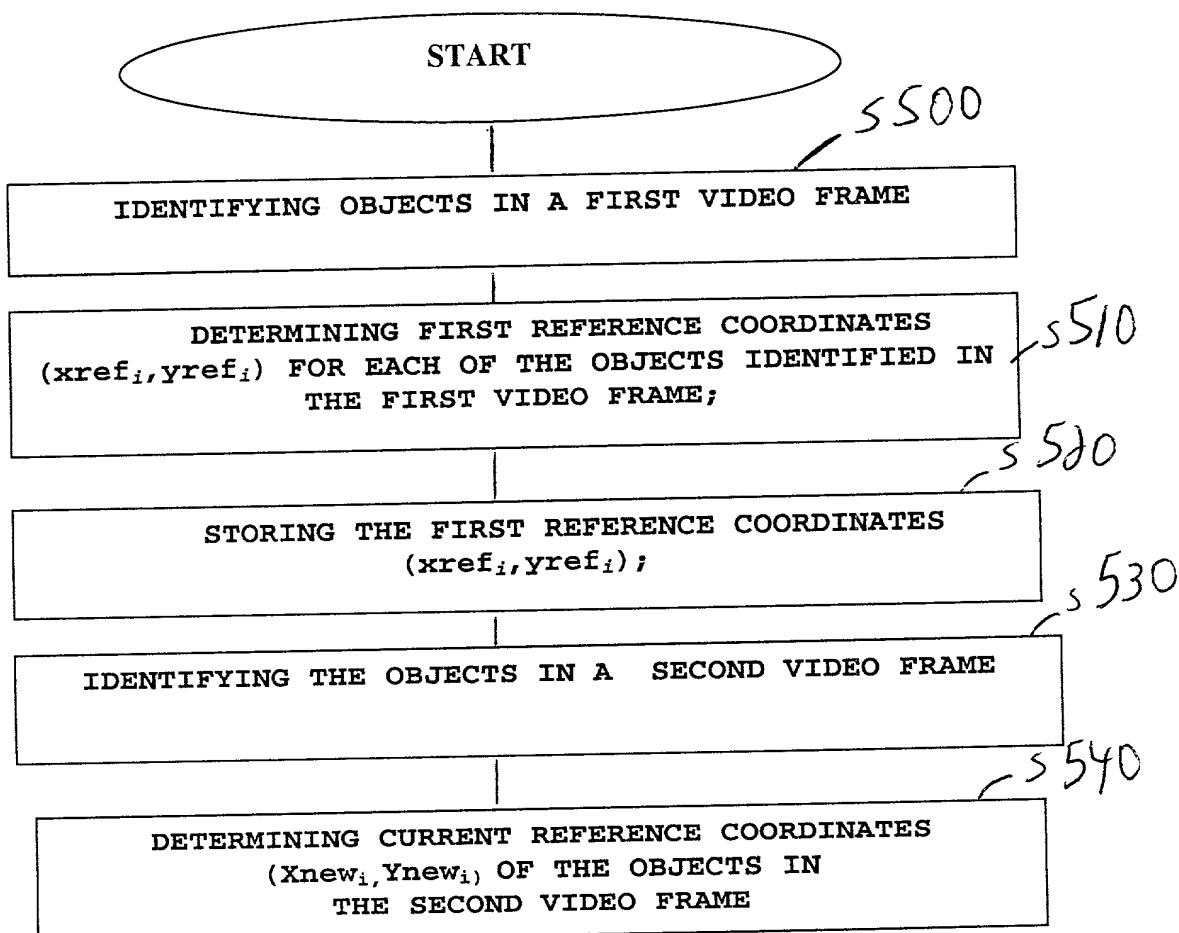


FIG. 5B

5 550

(f) storing the current reference coordinates of a particular object in an object trajectory list and replacing the first reference coordinates (x_{ref_i}, y_{ref_i}) with the current reference coordinates (x_{new_i}, y_{new_i}) if the following condition for the particular object is satisfied:

$$\| (x_{new_i}, y_{new_i}) - (x_{ref_i}, y_{ref_i}) \|^2 \geq \epsilon,$$

wherein ϵ is a predetermined threshold amount, and

retaining the first reference coordinates (x_{ref_i}, y_{ref_i}) for comparison with subsequent video frames when said condition in step (f) is not satisfied.

END